

Method for the Prevention of Erroneous Actuator Access in a Multifunctional General Electronic Control System

Abstract:

In a method for the prevention of erroneous actuator access in a multifunctional general electronic control system wherein the actuator access requirements emanate from different system services (1), a rights management (2), which determines the authorization of actuator access requirements, a mode of operation control unit (4), and an access management (6) are integrated into the general control system. The rights management (2), in the event of an access requirement by a system service (1), brings about an adjustment or a change of the mode of operation according to predefined rules in consideration of the instantaneous mode of operation of the general system and reports the current mode of operation to the access management (6). Depending on the reported general mode of operation, the access management (6) allows actuation of the actuator by means of the 'authorized' system service (1) and processes the actuator access requirements of the system services (1) according to predefined arbitration rules.

(Figure 1)